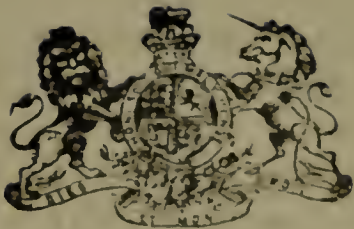


N<sup>o</sup> 6823



A.D. 1897

*Date of Application, 16th Mar., 1897*

*Complete Specification Left, 15th Dec., 1897—Accepted, 12th Mar., 1898*

#### PROVISIONAL SPECIFICATION.

##### **A New and Improved Disinfecting and Antiseptic Block.**

We, JAMES LAING MORTIMER and JOHN HUBERT WILLIAMS, both of 45A, Dale Street, Liverpool, Drysalters, do hereby declare the nature of this invention to be as follows:—

- 5 A combination or mixture of permanganate of potash or permanganate of soda with naphthaline, camphor & naphthaline, camphor or soap & the object is to surround each crystal or particle of the soda or potash with a material that is slightly soluble in water or of a volatile nature, so that as the material evaporates or is dissolved, the potash or soda will become exposed & subjected to the action of any liquid passing over it disinfecting same automatically.
- 10 In forming the blocks we heat the permanganate of potash or soda with the naphthaline, or camphor & naphthaline or camphor to 300° Fahr. and thoroughly mix them, this mixture is then transferred to moulds of the size & shape required, the materials may be used in any proportions but we find a suitable proportion for general purposes to be 75 parts of the potash or soda to 25 parts of any of the
- 15 other ingredients.

In making the soap combination we mix the potash or soda with soap when the latter is in a liquid state, or if we use a milled soap when in a powder & mould to the required size & shape.

- 20 The blocks may be made any size or shape to suit the particular trap, drain, sink, flush pipe, chamber or cistern, for which they may be required.

We claim that this method of using permanganate of potash or permanganate of soda is much more economical than using them alone in the form of crystals or powder; a sufficient quantity is given off only when the drain or flush is used.

- 25 After first fixing in position a continuous & regular supply of a disinfectant & antiseptic will be ensured for a considerable time without further attention.

Dated Fifteenth day of March 1897.

JAMES L. MORTIMER.  
JOHN H. WILLIAMS.

#### COMPLETE SPECIFICATION.

- 30 **A New and Improved Disinfecting and Antiseptic Block.**

We, JAMES LAING MORTIMER and JOHN HUBERT WILLIAMS, of 45A, Dale Street, Liverpool, Manufacturing Chemist and Drysalters, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

- 35 A combination or mixture of permanganate of potash or permanganate of soda  
[Price 8d.]



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*Mortimer and Williams's New and Improved Disinfecting and Antiseptic Block.*

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with naphthaline, camphor and naphthaline, camphor or soap and the object is to surround each crystal or particle of the permanganate of potash or permanganate of soda with a material that is slightly soluble in water or of a volatile nature, so that as the material evaporates or is dissolved, the permanganate of potash or permanganate of soda will become exposed and subjected to the action of any liquid 5 passing over it disinfecting same automatically.

In forming the blocks we heat the permanganate of potash or permanganate of soda with the naphthaline, or camphor and naphthaline or camphor to 300° Fahr. and thoroughly mix them this mixture is then transferred to moulds of the size and shape required the materials may be used in any proportions but we find a 10 suitable proportion for general purposes to be 75 *per cent.* or parts of the permanganate of potash or permanganate of soda to 25 *per cent.* of any of the other ingredients.

In making the soap combination we mix the permanganate of potash or permanganate of soda with soap when the latter is in a liquid state or if we use a milled 15 soap when in a powdered state and mould to the required size & shape.

The blocks may be made any size or shape to suit the particular trap, drain, sink, flush pipe, chamber or cistern for which they may be required.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed we declare that what we 20 claim is:—

(1) As a new article of manufacture a block consisting of granules of permanganate of potash or permanganate of soda surrounded by and embedded in a material capable of being slowly dissipated when the whole is placed in water substantially 25 as described.

(2) As a new article of manufacture a block formed of a mixture of granules of permanganate of potash or permanganate of soda and a disinfectant only slightly soluble in water.

(3) As a new article of manufacture a disinfecting block formed of granules of permanganate of potash or permanganate of soda and an amorphous material only 30 slightly soluble in water the one being substantially evenly disseminated in the other.

(4) The method of using permanganate of potash or permanganate of soda as a disinfectant which consists in mixing it with an adhesive material only slightly soluble in water moulding it into blocks and suspending these blocks in the water 35 or other fluid to be disinfected substantially as described.

Dated 15th December 1897.

JAMES LAING MORTIMER.  
JOHN HUBERT WILLIAMS.





